

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P1219610

Luminaire Tested: **LDSQA6A30950D010TE LARL15SP 6LSQA1H**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1219610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29053)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A30950D010TE LARL15SP 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

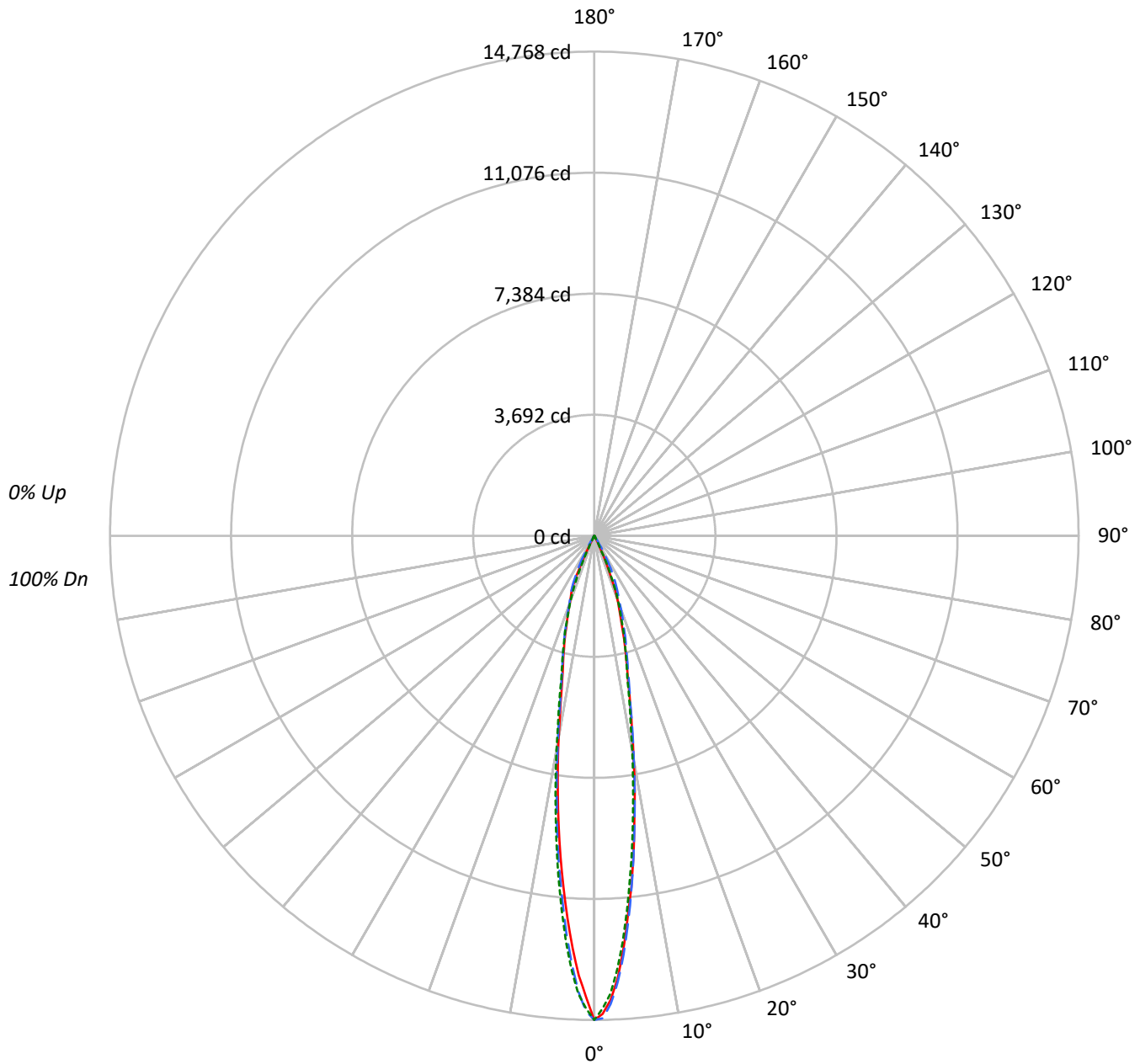
Lumens per Lamp: N/A
Luminaire Lumens: 2497.5 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.36
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	110	113	111	109	108	107	106	105		103	102	101		100
2	112	108	105	103	109	106	104	102	103	101	99		100	99	97		98
3	108	104	100	97	106	102	99	97	100	97	95		98	95	94		96
4	105	100	96	93	103	99	95	93	97	94	91		95	92	90		93
5	102	96	92	89	101	95	92	89	94	91	88		92	90	88		91
6	99	93	89	86	98	92	89	86	91	88	85		90	87	85		89
7	97	90	86	83	95	90	86	83	89	85	83		88	85	82		87
8	94	88	84	81	93	87	83	81	86	83	80		85	82	80		85
9	92	85	81	79	91	85	81	79	84	81	78		83	80	78		83
10	89	83	79	77	89	83	79	76	82	79	76		81	78	76		81

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	635837	635837	635837
5°	505472	494685	465373
10°	301160	290068	272908
15°	164556	164832	159661
20°	94277	96884	99587
25°	24898	25882	46490
30°	3401	3142	3043
35°	1361	1304	1251
40°	523	523	523
45°	256	183	256
50°	141	67	201
55°	75	0	158
60°	86	0	0
65°	102	0	0
70°	126	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	937.8	37.6
10°-20°	1055.4	42.3
20°-30°	470.0	18.8
30°-40°	28.7	1.1
40°-50°	4.6	0.2
50°-60°	0.8	0.0
60°-70°	0.2	0.0
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2463.1	98.6
0°-40°	2491.8	99.8
0°-60°	2497.2	100.0
0°-90°	2497.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2497.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14768	14768	14768	14768	14768	
5°	11695	11832	11446	11178	10768	961
15°	3692	3852	3698	3672	3582	1041
25°	524	1400	545	1352	979	309
35°	26	41	25	42	24	19
45°	4	7	3	7	4	4
55°	1	1	0	1	2	1
65°	1	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	14767.8	14767.8	14767.8	14767.8	14767.8	14767.8	14767.8	14767.8	14767.8
1°	14586.6	14720.1	14720.1	14688.0	14421.9	14619.7	14507.8	14387.8	14075.0
2°	14167.2	14302.8	14289.4	14167.2	13974.6	14056.3	13903.1	13754.0	13425.7
3°	13520.0	13665.9	13639.0	13511.6	13254.8	13304.5	13085.1	12972.1	12595.2
4°	12650.0	12835.4	12803.3	12662.5	12404.7	12401.6	12171.6	12052.7	11703.5
5°	11695.3	11889.1	11832.1	11716.0	11445.7	11397.0	11177.6	11092.6	10767.5
6°	10777.8	10899.0	10839.9	10743.7	10451.7	10421.6	10213.4	10141.0	9840.7
7°	9800.3	9884.2	9826.2	9751.7	9456.5	9417.1	9247.3	9190.4	8897.3
8°	8769.9	8890.0	8807.1	8760.6	8482.1	8428.2	8257.3	8219.0	7984.0
9°	7889.8	7930.1	7842.1	7702.2	7540.8	7485.9	7304.6	7267.4	7102.8
10°	6888.4	7013.8	6945.3	6825.2	6634.7	6676.1	6413.1	6382.1	6242.2
11°	6017.5	6149.0	6076.5	5968.9	5797.0	5820.8	5605.4	5474.9	5453.1
12°	5298.9	5358.9	5337.2	5250.2	5111.4	5118.7	4927.0	4822.5	4800.6
13°	4598.8	4706.5	4716.9	4645.5	4478.7	4555.3	4412.4	4327.5	4293.3
14°	4124.4	4206.4	4239.6	4237.4	4057.2	4124.4	4011.7	3943.3	3909.2
15°	3691.7	3798.4	3852.2	3849.1	3697.9	3766.3	3672.0	3618.2	3581.9
16°	3285.8	3431.8	3519.9	3505.3	3364.5	3434.9	3341.7	3288.9	3248.4
17°	2877.7	3078.7	3208.1	3180.1	3033.1	3122.2	3033.1	2987.5	2945.1
18°	2563.9	2728.5	2910.9	2850.8	2687.3	2826.0	2749.3	2713.0	2673.7
19°	2282.4	2395.2	2632.3	2525.6	2377.5	2535.0	2478.0	2449.0	2411.8
20°	2057.6	2155.0	2366.1	2239.8	2114.5	2243.0	2227.5	2204.7	2173.5
21°	1769.8	1955.1	2124.9	2007.9	1843.3	2024.6	2044.1	2031.6	2008.9
22°	1401.1	1734.5	1949.9	1736.6	1521.2	1865.0	1905.4	1896.0	1879.5
23°	1090.4	1474.6	1788.4	1487.0	1184.6	1687.9	1748.0	1741.8	1686.9
24°	795.3	1207.4	1585.5	1194.0	852.3	1446.6	1561.6	1551.3	1352.4
25°	524.1	940.3	1400.0	895.8	544.8	1170.1	1352.4	1334.8	978.6
26°	336.5	687.6	1233.3	612.0	290.0	874.0	1130.8	1081.1	606.8
27°	161.6	479.4	1029.4	360.4	140.8	583.0	907.1	796.3	293.1
28°	101.5	251.6	818.1	179.1	95.3	324.2	694.9	505.3	114.9
29°	82.9	124.2	605.8	101.5	77.7	149.1	498.1	246.5	79.7
30°	68.4	82.9	413.2	77.7	63.2	82.9	327.2	96.2	61.2
32.5°	43.5	51.8	95.3	48.7	41.4	47.6	77.7	46.7	38.3
35°	25.9	33.2	41.4	32.0	24.8	31.0	42.4	30.1	23.8
37.5°	15.5	19.7	26.9	19.7	15.5	19.7	26.9	19.7	14.5
40°	9.3	12.5	18.7	12.5	9.3	12.5	18.7	12.5	9.3
42.5°	6.2	7.3	12.5	7.3	5.2	7.3	12.5	8.2	6.2
45°	4.2	5.2	7.3	4.2	3.0	4.2	7.3	5.2	4.2
47.5°	3.0	3.0	4.2	2.1	2.1	3.0	5.2	4.2	3.0
50°	2.1	2.1	3.0	1.0	1.0	1.0	3.0	3.0	3.0
52.5°	1.0	1.0	1.0	0.0	0.0	0.0	2.1	2.1	2.1
55°	1.0	1.0	1.0	0.0	0.0	0.0	1.0	2.1	2.1
57.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
60°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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— 0°-180° - - 45°-225° - - - 90°-270°

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62.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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